

HS binding
Extracellular
Domain

Transmembrane
Domain

Cytoplasmic
Domain

Fig. 1

Fig. 2: Syndecan-1 (rat) extracellular domain: M81785

atgagac gtgcggcgct

ctggcttttg ctctgcgcgc tggcgctgcg cctgcagcct gccctccgc aaattgtcac
cgcaaattgtg cctcctgaag accaagatgg ctctggggac gactcagaca acttctctgg
ctcaggcaca ggtgctttgc cagatatgac tttgtcacgg cagacacctt ccacttgga
ggatgtgtgg ctctgacag ctacaccac agctccagaa cccaccagca gggataccga
ggccaccctc acctctatcc tgccggctgg agagaagcct gaggagggag agcccggtggc
ccacgtggaa gcagagcctg acttcaactgc tcgggacaag gagaaggagg ccaccaccag
gcctagggag accacacagc tcccagtcac ccaacaggcc tcaacagcag ccagagccac
cacggcccag gcattctgtca cgtctcatcc ccacggggat gtgcaaacctg gcctccacga
gaccttggct cccacagcac ccggccaacc tgaccatcag cctccaagtg tggaggatgg
aggcacttct gtcattcaaag aggttgtgga ggatgaaact accaatcagc ttcttcagg
agagggctct ggagaacaag acttcacctt tgaaacatct ggggagaaca cagctgtggc
tggcgctcag cctgaccttc ggaatcagtc cccagtggat gaaggagcca caggtgcttc
tcagggcctt ttggacagga aggaa

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 3: Syndecan-2 (human) extracellular domain (J 04621):

```
ggcaggaggg agggagccag aggaaaagaa gaggaggaga aggaggagga cccggggagg
gagggcgggc gcgggaggag gaggggcgca gccgcggagc cagtggcccc gcttggaacgc
gctgctctcc agataccccc ggagctccag ccgcgcggat cgcgcgctcc cgcgcgctctg
cccctaaact tctgcgctag ctccctttca agccagcgaa tttattcctt aaaaccagaa
actgaacctc ggcacgggaa aggagtccgc ggaggagcaa aaccacagca gagcaagaag
agcttcagag agcagccttc ccggagcacc aactccgtgt cgggagtgcg gaaaccaaca
agtgaagagg cgccgcgttc ccggggcgca gctgcggggc gcgggagcag ggcgaggagg
aggaagcgag cgcggcgag ccccgagccc gaggccccga gcctgagccg caatcgctgc
ggtactctgc tccgattcgc tgtgcgcggg ctgcgcgagc gctgggcagg aggcctcgtt
ttgccctggt tgcaagcagc ggctgggagc agccggtccc tggggaatat gcggcgcgcg
tggtacctgc tcaccttggg cttggtggcc tgcgtgtcgc cggagtcgag agcagagctg
acatctgata aagacatgta ccttgacaac agctccattg aagaagcttc aggagtgtat
cctattgatg acgatgacta cgcttctgcg tctggctcgc gagctgatga ggatgtagag
agtccagagc tgacaacaac tcgaccactt ccaaagatac tggtgactag tgctgctcca
aaagtggaaa ccacgacgct gaatatacag aacaagatac ctgctcagac aaagtcacct
gaagaaactg ataaagagaa agttcacctc tctgactcag aaaggaaaat ggaccagacc
gaagaggata caaatgtgta tactgagaaa cactcagaca gtctgtttaa acggacagaa
```

protein sequence:

```
GRREGARGKEEEEKEEDPGREARRGRRRGAAEPVAPLGRAALQ
IPPELQPRGSRAPALPLNFCRSSLSSQRIYSLKPETEPRHGKGVGGAKPQQSKKSF
REQFSRSTNSVSGVQKPTSERAPRSRGAAAGGSRRRRRKRAPSPESPSPSLSRNRC
GTLRLIRVRGLAERWAGGFVLPWLQAAAGSSRLGNMRRRAWILLTLGLVACVSAESRA
ELTSDKMYLDNSSIEEASGVYPIDDDYASASGSGADEDVESPELTTRPLPKILLT
SAAPKVETTTLNQNKIPAQTKSPEETDKEKVHLSDSERKMDPAEEDTNVYTEKHSDS
LFKRTE
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reference:

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ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)
```

Fig. 4: Synd-3 (N-Syndecan) extracellular domain

gccccgcgcgctgctgagccgtccttgccggcacgssgatgcccgcggagctgcggcgcc
tcggggtgctgctgctgctgctcagcgcccgcgagcgctggctcagccgtggcgcaatg
agaactacgagaggccggtggacctggagggctctggggatgatgatccctttggggacg
atgaactggatgacatctactcgggctccggctcaggctattttgagcaggagtcagggt
tggagacagcgggtcagcctcaccacggacacgtccgtcccactgccaccacgggtggcgg
tgctgcctgtcaccttgggtgcagcccatggcaacaccctttgagctgttccccacagagg
acacgtcccctgagcaaaacaaccagcgtcttgtatatccccaagataacagaagcaccag
tgatccccagctggaaaacaaccaccgcccagttaccactgccagtgaactccccagttacca
cctccaccaccaccacgggtgctaccaccaccacaaccaccaccaccatcagcacca
ctgtggccacctccaagcccaccactaccagagggttcctgccccctttgtcaccaagg
cagccaccacccggggccaccaccctggagacgcccaccacctccatccctgaaaccagt
tcctgacagaggtgaccacatcacggcttgtcccctccagcacagccaagccgaggtccc
tgccaaaaccaagcacttccaggactgcagaacccacggaaaaaagcactgccttgctt
ccagccccaccacgtgccacccacagaagccccccaggtggagccaggggagttgacga
cagtcctcgacagtgaacctggaagtcccaaccagtagtggtggccagcggggacttcgaga
tccaggaggaggaggagacaactcgtcctgagctgggcaatgaggtgggtggcagtggtga
caccaccagcagcaccgggggtgggcaagaaatgcagagccggggctcatcgacaacacaa
tagagtcgggcagctcgggtgctcagctccccagaaaaacatcctggagaggaaggaa

Reference:

ACCESSION M84910
LOCUS CHKSNDCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Fig. 5: Syndecan-4 extra-cellular domain from rat: M81786

atggc gcctgtctgc ctgtttgcgc cgctgctgct gttgctcctc
ggagggtttcc ccgtcgcccc aggcgagtcg attcgagaga ctgaggtcat agacccccag
gacctcctgg aaggcagata cttctctgga gccctcccg acgatgaaga cgctgggggc
cttgagcagg actctgactt tgagctgtcg ggttcggag atctagatga cacggaggag
cccaggacct tccctgaggt gatttcaocc ttggtgccac tagataacca catccccgag
aatgcccagc ctggcatccg tgtccctca gagcccaagg aactggaaga gaatgaggtc
attcccaaaa ggggtcccctc cgacgtgggg gatgacgatg tgtccaaca agtgtccatg
tccagcactt ccagggcag caacattttt gaaagaactg ag

Reference:

ACCESSION M81786
LOCUS RATTRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 6: Glypican-1 (rat) extracellular Domain:

atggag

```
ctccggggccc gaggctggtg gctgctgtgc gcggccgccc cgctagtcgc ctgcgcccgc
ggggacccccg ccagcaagag ccggagctgc agcgaagtcc gccagatcta cggggctaag
ggcttttagcc tgagcgacgt gccccaggca gagatctcgg gagagcacct gcggatctgc
ccccagggct acacctgctg caccagttag atggaggaga acctggccaa ccacagccgg
atggagctgg agaccgcact ccacgacagc agccgtgccc tgcaggctac actggccacc
cagctgcattg gcatcgatga ccacttccag cgcctgctga atgactcgga gcgtacactg
caggatgctt ttcccggggc ctttggggac ctgtacacgc agaactctcg ggccttcogg
gacctgtatg ctgagctgcg tctctactac cgaggggcca acctacacct tgaggagaca
ctggccgagt tctgggcacg gctgctggag cgtctcttca agcagctgca cccccagctt
ctgctgcccg atgactatct ggactgcctg ggcaagcagg cagaggcact gcggcgtttt
gggatgccc ctcgagaact gcgcctgagg gccaccctg cttttgtggc ggcacgatcc
tttgtgcagg gcctgggtgt ggccagtgc gtagtccgaa aggtggccca ggttcctctg
gccccagaat gttctcgggc tgtcatgaag ttggtctact gtgcccattg ccggggagtc
cctggtgccc ggccctgtcc cgactattgc cgaaatgtgc tcaaaggctg ccttgccaac
caggccgacc tggatgccga gtggaggaa ctcctggact ccatggtgct catcactgac
aagttctggg gcccgctcggg tgcggagaat gtcattggca gtgtgcatat gtggctggcg
gaggccatca acgccctcca ggacaacaag gacacactca cagctaaggt catccagggc
tgccgaaacc ccaaggtcaa tccccatggc tctgggcctg aggagaagcg tcgccgtggc
aaactggcac tgcaggagaa gtcctccaca ggtactctgg aaaagctggt ctctgaggcc
aaggccagc tccgagacat tcaggactac tggatcagcc tcccaggga actgtgtagt
gagaagatgg ccatgagtcc tgccagcgat gaccgctgct ggaatgggat ttccaagggc
cggtacctac ctgaggtgat gggatgatgg ctggccaacc agatcaacaa ccctgaagtg
gaggtggaca tcaccaagcc ggatatgacc atccggcagc agatcatgca gctcaagatc
atgaccaacc gtttacgtgg cgcctacggt ggcaatgatg tggacttcca ggatgccagt
gatgacggca gtggctccgg cagcgggtgg ggatgcccag atgacgcctg tggccggagg
gtcagcaaga agagctccag ctcccggacc cccttgaccc atgccctccc cggtttgtca
gaacaggagg gacagaagac ctcg
```

Protein sequence:

```
MELRARGWLLCAAALVACARGDPASKRSRSCSEVRQIYGAKGF
SLSDVPQAEISGEHLRCPQGYTCTCTSEMEENLANHSRMELETALHDSSRALQATLAT
QLHGIDDFQRLNDSERTLQDAFFGAFGDLYTQNTAFRDLYAELRLYYRGANLHLE
ETLAEFWARLLERLFQQLHPQLLPDDYLDCLGKQAEALRPFGDAPRELRLRATRAFV
AARSFVQGLGVASDVVRKVAQVPLAPECRAVMKLVYCAHCRGVPGARPCPDYCRNVL
KGCLANQADLDAEWRNLLDSMVLITDKFWGPGSAENVIGSVHMLAEAINALQDNKDT
LTAKVIQCGNPKVNPNGSGPPEEKRRRKLALQEKSSGTLEKLVS EAKQLRDIQDY
WISLPGTLCSEKMAMSPASDDRCWNGISKGRYLPEVMGDGLANQINNPEVEVDITKPD
MTIRQQIMQLKIMTNRLRGAYGGNDVDFQDASDDGSGSGSGGCPDDACGRRVSKKSS
SSRTPLTHALPGLSEQEQKTS A
```

Reference:

ACCESSION L34067
NID g506416
KEYWORDS glypican.
SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 1737)
AUTHORS Litwack, E.D., Stipp, C.S., Kumbasar, A. and Lander, A.D.
TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system
JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Fig.7 : Syndecan-1 (rat) transmembrane domain: M81785

gtgct gggagggtgtc attgctggag gcctggtggg
cctcatcttt gctgtgtgcc tgggtgcttt catgctatac

Reference:

ACCESSION M81785
LOCUS RATSYNDECA 2396 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus syndecan mRNA, complete cds.
ACCESSION M81785
NID g207140
KEYWORDS syndecan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2396)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 8 : Syndecan-2 (human) transmembrane domain (J 04621):

**gtcctagcag ctgtcattgc tgggtggagtt attggctttc tctttgcaat ttttcttata
ctgctgttgg tg**

protein sequence:
VLAAVIAGGVIGFLFAIFLILLV

reference:

ACCESSION J04621
LOCUS HUMHSPGC 3414 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG) core protein, 3' end.
ACCESSION J04621
NID g184428
KEYWORDS core protein; heparan sulfate proteoglycan.
SOURCE Human fetal lung fibroblast, cDNA to mRNA, clone 48K5.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 3414)
AUTHORS Marynen,P., Zhang,J., Cassiman,J.J., Van den Berghe,H. and David,G.
TITLE Partial primary structure of the 48- and 90-kilodalton core
proteins of cell surface-associated heparan sulfate proteoglycans
of lung fibroblasts. Prediction of an integral membrane domain and
evidence for multiple distinct core proteins at the cell surface of
human lung fibroblasts
JOURNAL J. Biol. Chem. 264 (12), 7017-7024 (1989)

Fig. 9 : Synd-3 (N-Syndecan) chicken Transmembrane domain

gtgttgatagctgtgattgtcggcgggtgtggtgggagccctctttgctgccttccttggtca
tgctgctcatctac

Reference:

ACCESSION M84910
LOCUS CHKSNDPCPRO 1372 bp mRNA VRT 29-NOV-1995
DEFINITION Chicken syndecan-3 proteoglycan mRNA, complete cds.
ACCESSION M84910
NID g1017461
KEYWORDS syndecan-3 proteoglycan.
SOURCE Gallus gallus 4-6 day and 10 day forelimb and whole embryo cDNA to mRNA.
ORGANISM Gallus gallus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Archosauria; Aves; Neognathae; Galliformes;
Phasianidae; Phasianinae; Gallus.
REFERENCE 1 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Syndecan 3: a member of the syndecan family of
membrane-intercalated proteoglycans that is expressed in high
amounts at the onset of chicken limb cartilage differentiation
JOURNAL Proc. Natl. Acad. Sci. U.S.A. 89 (8), 3271-3275 (1992)
MEDLINE 92228766
REFERENCE 2 (bases 1 to 1372)
AUTHORS Gould,S.E., Upholt,W.B. and Kosher,R.A.
TITLE Characterization of chicken syndecan-3 as a heparan sulfate
proteoglycan and its expression during embryogenesis
JOURNAL Dev. Biol. 168 (2), 438-451 (1995)

Figure 10 : Syndecan-4 transmembrane domain from rat: M81786

gtcttggc agctctgatt gtggcgccg tagtgggcat cctcttcgcc gttttcctga
tcctgctgct ggtgtac

Reference:

ACCESSION M81786
LOCUS RATTRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. // : Glypican-1 (rat) GPI-Transmembrane Domain:

gccgcc actgccag agcctcacta cttctttctg
ctcttctgt tcaccttggc cttgtctgca gccaggccca ggtggcggtg actgccc

protein sequence:

ATRPEPHYFLLFLFTLVLAARPRWR

Reference:

ACCESSION L34067

NID g506416

KEYWORDS glypican.

SOURCE Rattus norvegicus (strain New England Deconess Hospital) cDNA to mRNA.

ORGANISM Rattus norvegicus

Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.

REFERENCE 1 (bases 1 to 1737)

AUTHORS Litwack,E.D., Stipp,C.S., Kumbasar,A. and Lander,A.D.

TITLE Neuronal expression of glypican, a cell-surface
glycosylphosphatidylinositol-anchored heparan sulfate proteoglycan,
in the adult rat nervous system

JOURNAL J. Neurosci. 14, 3713-3724 (1994)

Figure 12 : Perlecan (human) transmembrane domain #M85289

tcgcgacactgctcatcccag
ccatcacgactgctgacgccggctttctacctctgcgtggccaccagccctgcaggcactg
cc

Reference:

LOCUS HUMHSPG2B 14327 bp mRNA PRI 08-NOV-1994
DEFINITION Human heparan sulfate proteoglycan (HSPG2) mRNA, complete cds.
ACCESSION M85289
NID g184426
KEYWORDS HSPG2 gene; heparan sulfate proteoglycan.
SOURCE Homo sapiens skin; colon cDNA to mRNA.
ORGANISM Homo sapiens
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 14327)
AUTHORS Dodge,G.R., Kovalszky,I., Chu,M.L., Hassell,J.R., McBride,O.W.,
Yi,H.F. and Iozzo,R.V.
TITLE Heparan sulfate proteoglycan of human colon: partial molecular
cloning, cellular expression, and mapping of the gene (HSPG2) to
the short arm of human chromosome 1
JOURNAL Genomics 10 (3), 673-680 (1991)
MEDLINE 91365376
REFERENCE 2 (bases 1 to 14327)
AUTHORS Murdoch,A.D., Dodge,G.R., Cohen,I., Tuan,R.S. and Iozzo,R.V.
TITLE Primary structure of the human heparan sulfate proteoglycan from
basement membrane (HSPG2/perlecan). A chimeric molecule with
multiple domains homologous to the low density lipoprotein
receptor, laminin, neural cell adhesion molecules, and epidermal
growth factor
JOURNAL J. Biol. Chem. 267 (12), 8544-8557 (1992)

Figure 13 : Syndecan-4 cytoplasmic domain from rat: M81786

Cgc atgaagaaga aggatgaagg cagttacgac ttgggcaaga aacccatcta caaaaaagcc
cccaccaacg agttctacgc atga

Reference:

ACCESSION M81786
LOCUS RATRYUDOCA 2452 bp mRNA ROD 16-JUL-1992
DEFINITION Rattus norvegicus ryudocan mRNA, complete cds.
ACCESSION M81786
NID g206822
KEYWORDS ryudocan.
SOURCE Rattus norvegicus Epididymal fat pad cDNA to mRNA.
ORGANISM Rattus norvegicus
Eukaryotae; mitochondrial eukaryotes; Metazoa; Chordata;
Vertebrata; Eutheria; Rodentia; Sciurognathi; Myomorpha; Muridae;
Murinae; Rattus.
REFERENCE 1 (bases 1 to 2452)
AUTHORS Kojima,T., Shworak,N.W. and Rosenberg,R.D.
TITLE Molecular cloning and expression of two distinct cDNA-encoding
heparan sulfate proteoglycan core proteins from a rat endothelial
cell line
JOURNAL J. Biol. Chem. 267, 4870-4877 (1992)

Fig. 14

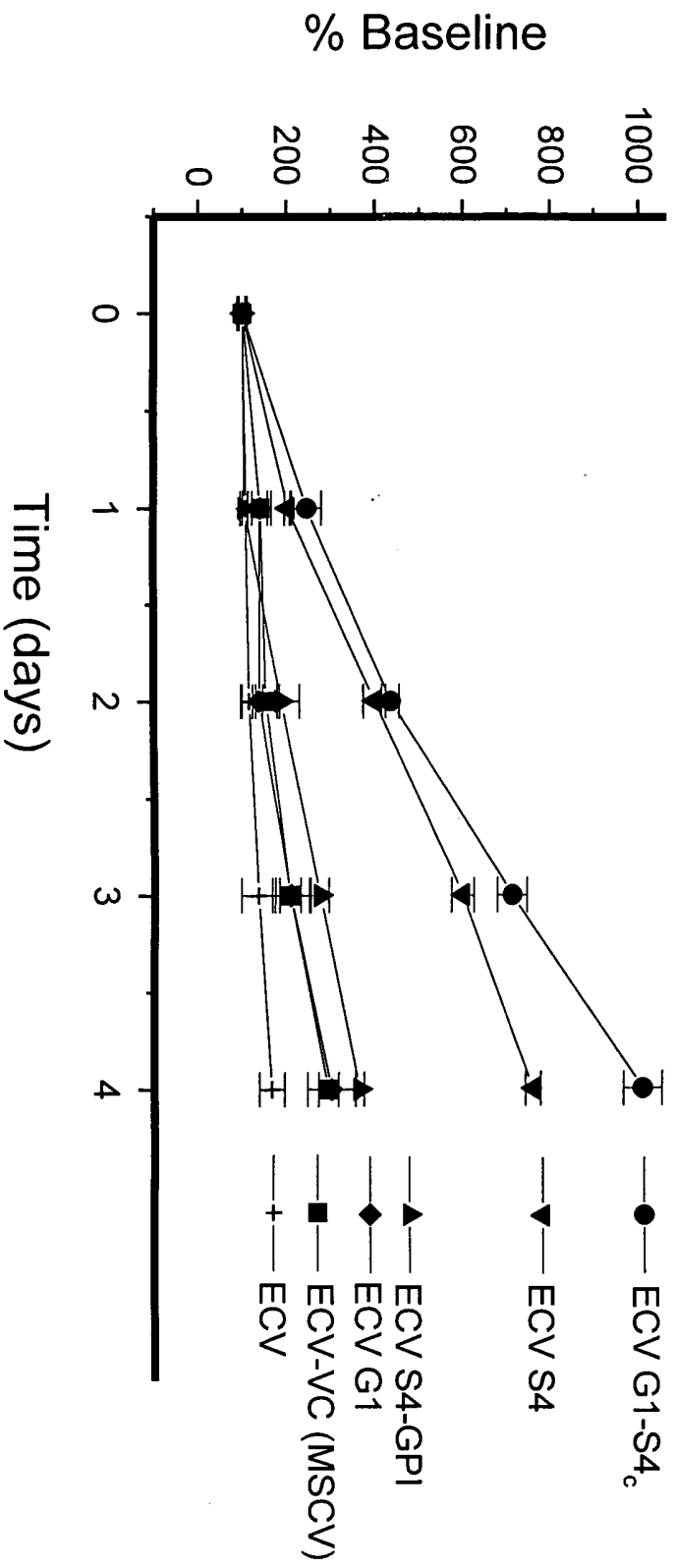


Fig. 15A

MSCV



Fig. 15B

S4

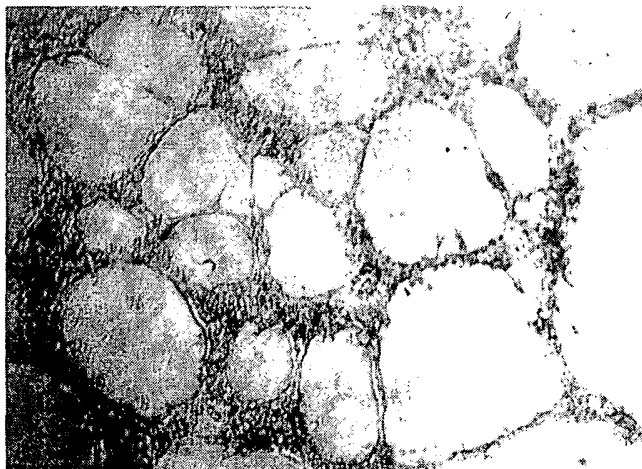


Fig. 15C

G1_{ect}-S4_{cyt}

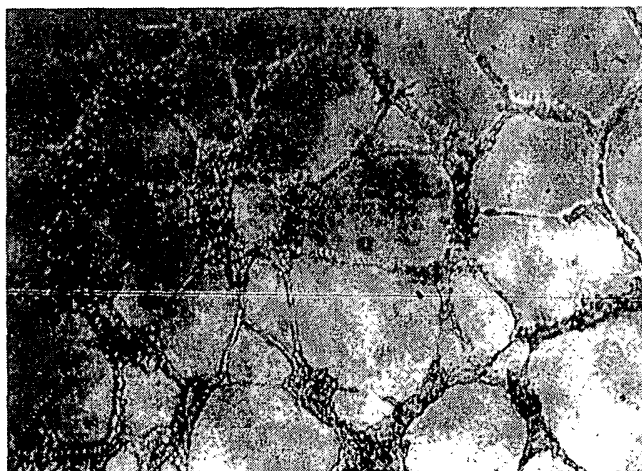
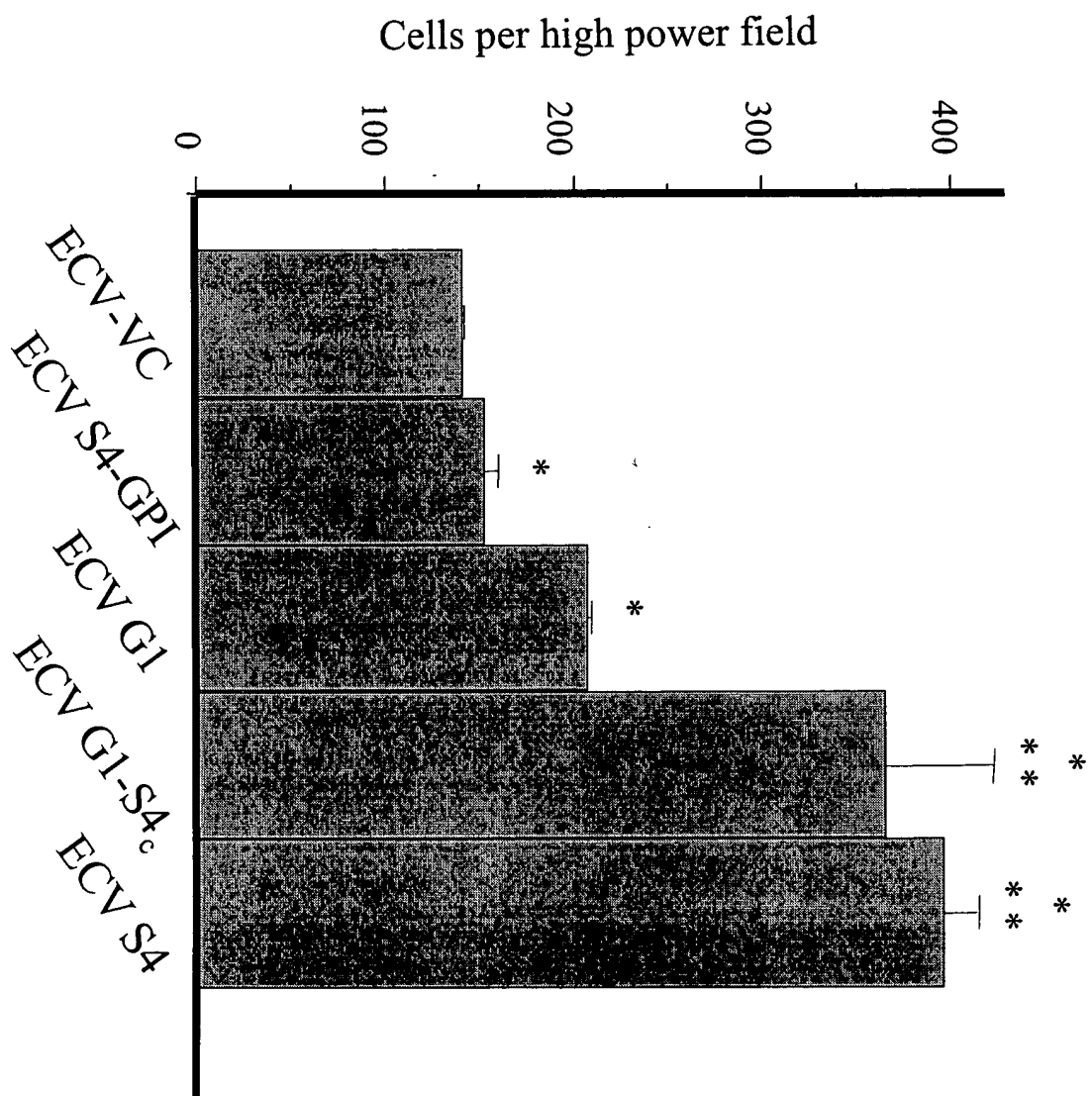
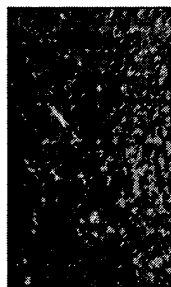


Fig. 16

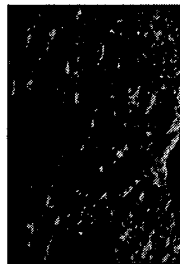


* $p < 0.05$ vs. ECV-VC
 ** $p < 0.05$ vs. G4-GPI

Fig. 17A



-/-



+/-

Fig. 17B

Fig. 17C

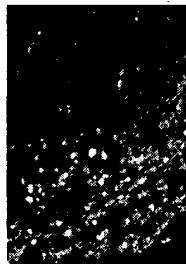
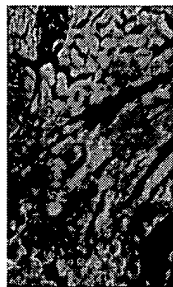


Fig. 17D

Fig. 17E

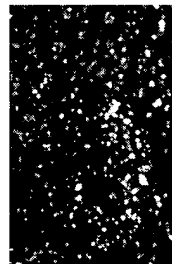
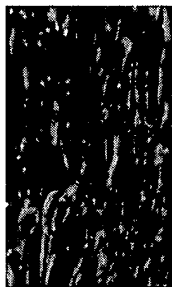


Fig. 17F

Day 0

Day 1

Day 3

WT A B



PR-39



Syndecan-4



Glypican

Fig. 18

Fig. 19

